Abstracts

A 13 GHz phase-locked loop development for micro- and millimeter wave applications

Thongchai Hongsmatip, F. Carrez and J. Fenton. "A 13 GHz phase-locked loop development for micro- and millimeter wave applications." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 357-360.

A 13 GHz Phase-Locked Loop (PLL) employing a parametric divider is being developed for volume production of microwave and millimeter wave applications. This PLL is realized using a mixed technology of pHEMT MMICs and SMT components to insure a cost effective, microwave multi-chip assembly solution. The fundamental PLL frequency of 13 GHz can be used as a very stable oscillator source for a number of applications, including point-to-point systems, 38 GHz radio band, 65 GHz broadband network and 77 GHz automotive applications by means of successive multipliers.

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